

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,473,236 B1
APPLICATION NO. : 09/664462
DATED : January 6, 2009
INVENTOR(S) : Paul R. Mathewson

Page 1 of 3

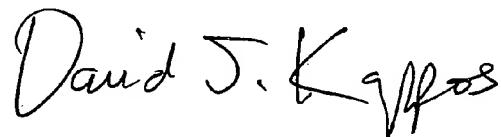
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The Title Page, showing an illustrative Figure, should be deleted and substitute therefor the attached Title Page.

Delete Drawing Sheet 1, consisting of Fig. 1 and Fig. 3 and substitute therefor the Drawing Sheet consisting of Fig. 1, as shown on the attached page.

Signed and Sealed this

Seventh Day of September, 2010



David J. Kappos
Director of the United States Patent and Trademark Office

CERTIFICATE OF CORRECTION (continued)

Page 2 of 3

(12) **United States Patent**
Mathewson

(10) **Patent No.:** US 7,473,236 B1
(45) **Date of Patent:** Jan. 6, 2009

(54) **VARIABLEY ADJUSTABLE BI-DIRECTIONAL DEROTATION BRACING SYSTEM**

(76) Inventor: **Paul R. Mathewson, 7726 N. Buckboard Dr., Park City, UT (US) 84098**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1826 days.

(21) Appl. No.: 09/664,462

(22) Filed: **Sep. 18, 2000**

3,900,199 A	8/1975	McGonagle
4,201,203 A	5/1980	Applegate
4,269,181 A	5/1981	Delannoy
4,353,362 A	10/1982	DeMarco
4,378,009 A	3/1983	Rowley et al.
4,425,912 A	1/1984	Harper
4,503,846 A	3/1985	Martin
4,697,583 A	10/1987	Mason et al.
4,733,656 A	3/1988	Marquette
4,802,466 A	2/1989	Meyers et al.
4,941,462 A *	7/1990	Lindberg
4,986,264 A	1/1991	Miller

Related U.S. Application Data

(63) Continuation-in-part of application No. 09/004,010, filed on Jan. 7, 1998, now Pat. No. 6,142,965.

(60) Provisional application No. 60/039,104, filed on Feb. 25, 1997.

(51) **Int. Cl.**
A61F 13/00 (2006.01)

(52) **U.S. Cl.** **602/62; 602/23, 602/26; 602/60**

(58) **Field of Classification Search** **602/60-65, 602/20, 23, 26**

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

366,590 A	7/1887	Lubin
967,585 A	8/1910	Teufel
2,574,873 A	11/1951	Jobst
2,646,796 A	7/1953	Scholl
3,306,288 A	2/1967	Rosenfield
3,307,546 A	3/1967	Cherio et al.
3,419,003 A	12/1968	Krauss et al.
3,504,672 A	4/1970	Moon
3,529,601 A	9/1970	Kirkland
3,680,549 A	8/1972	Lehneis et al.
3,724,457 A	4/1973	Klaite
3,805,781 A *	4/1974	Hoey
3,831,467 A	8/1974	Moore
	602/75	

(Continued)

FOREIGN PATENT DOCUMENTS

DE 4013693 A1 * 8/1991

(Continued)

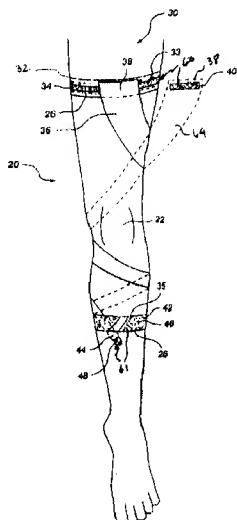
Primary Examiner—Michael Brown

(74) Attorney, Agent, or Firm—Morris O'Bryant Compagni

(57) **ABSTRACT**

A lightweight orthopedic brace having no rigid structural elements is constructed from flexible material and is designed primarily to provide for restriction of rotational movement and translation about the target joint by providing flexible bracing members which wind in a circumferentially spiraling manner about a target joint to provide active resistance to axial rotation and translation in the joint. The embodiments of the invention disclosed here provide improved means for placing the invention on the body about a joint, improved means for attachment of bracing members to bracing member supports and improved means for adjusting the length of bracing member to selectively provide for restriction of rotational movement about the target joint.

19 Claims, 6 Drawing Sheets



U.S. Patent

Jan. 6, 2009

Sheet 1 of 6

7,473,236 B1

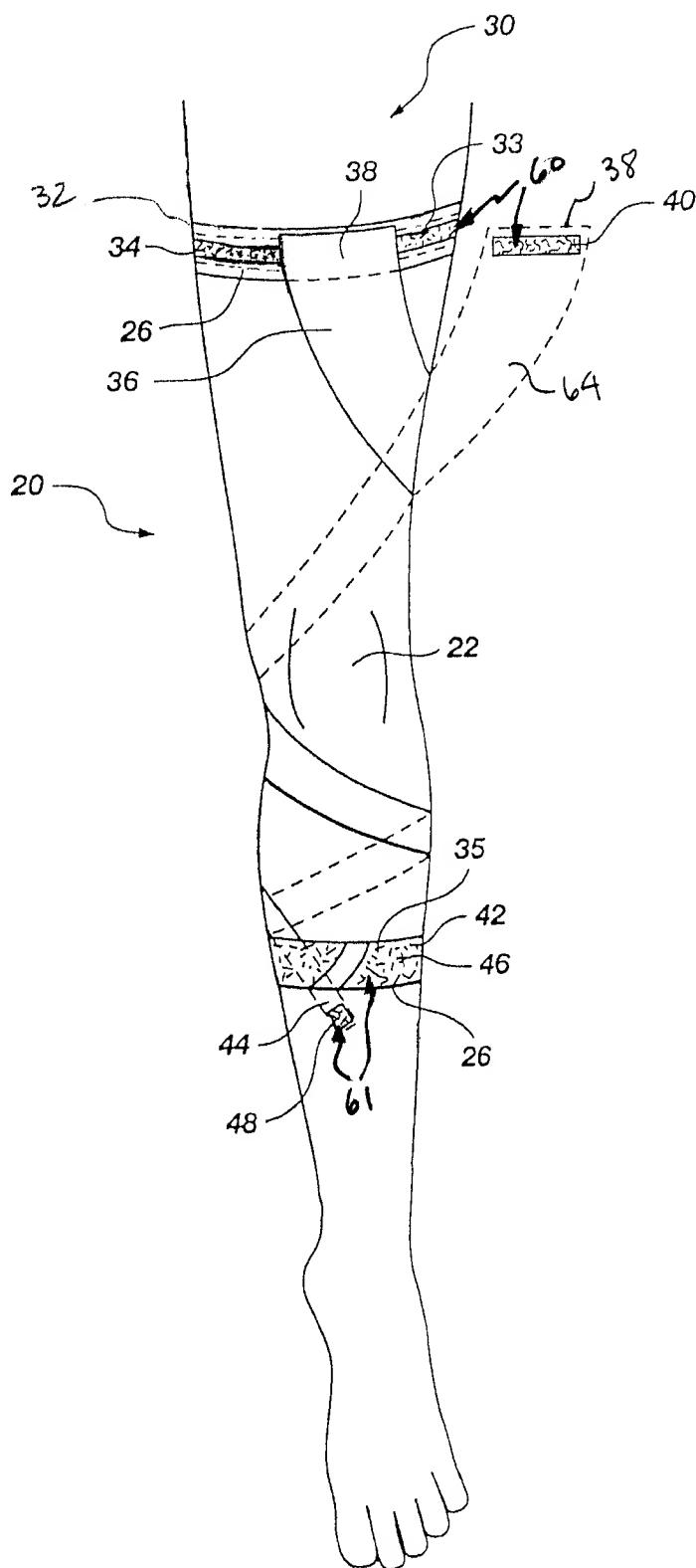


Fig. 1